



12V

135Ah

SLA

AGM

## 12TP140FT-FR

Rechargeable AGM Sealed Lead Acid Battery

### SPECIFICATIONS

<b>Nominal Voltage</b>	12V	
<b>Nominal Capacity</b>		
20 hour rate (6.75A to 10.5V)	135Ah	
10 hour rate (12.5A to 10.8V)	125Ah	
5 hour rate (21.25A to 10.2V)	106.3Ah	
1 hour rate (75A to 9.6V)	75Ah	
1C (125A to 9.6V)	62.5Ah	
<b>Weight</b>	Approx. 39kg	
<b>Internal Resistance (at 1KHz)</b>	Approx. 7mΩ	
<b>Maximum Discharge Current (5 secs)</b>	1250A	
<b>Charge Methods at 25°C</b>		
<b>Cycle Use</b>		
Charging Voltage	14.4V to 15.0V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	40.5A	
<b>Standby Use</b>		
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		
<b>Operating Temperature Range</b>		
<b>Charge</b>	-15°C to 40°C	
<b>Discharge</b>	-15°C to 50°C	
<b>Storage</b>	-15°C to 40°C	
<b>Charge Retention (Shelf Life) at 20°C</b>		
1 month	98%	
3 months	94%	
6 months	85%	

<b>Case Material</b>	UL94 V-0 Flame Retardant
<b>Termination</b>	F18 (M8 Bolt)

#### Description of Torque Value of Hardware for the Terminals

Recommended Torque Value	M8: 12 N-m (122kgf-cm)
Max. Allowable Torque Value	M8: 15 N-m (153kgf-cm)

<b>Design Life</b>	12 Years
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#### Classified as a non-spillable battery.

#### Approved for transportation by:

- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

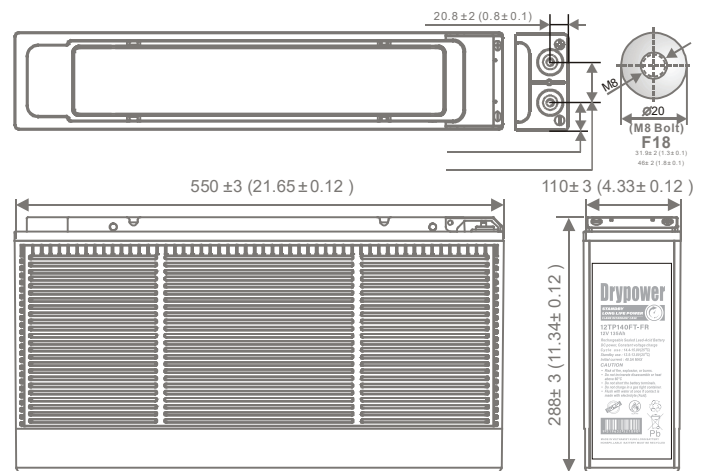


<b>Barcode</b>	 9319632521090
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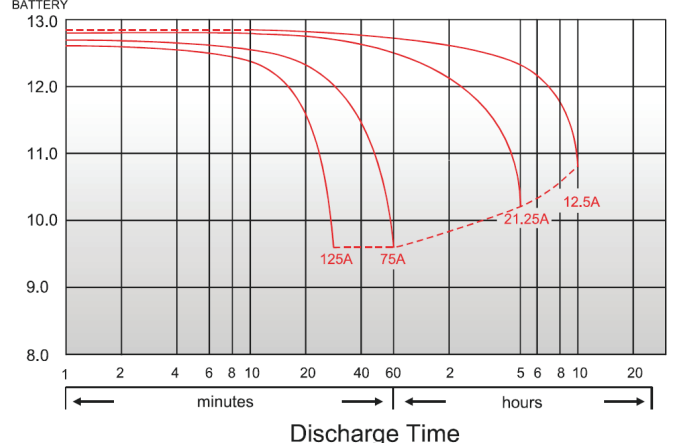


### DIMENSIONS

mm (inch)

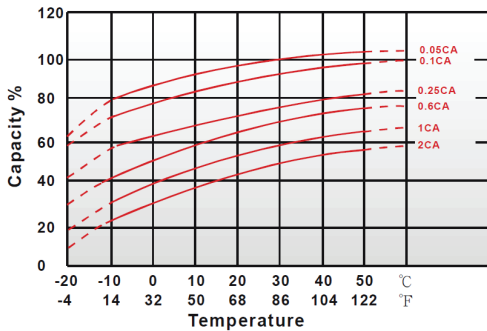


FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)

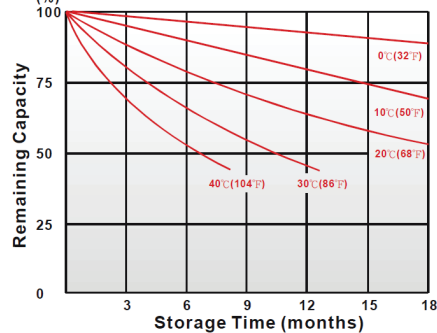


## CHARACTERISTICS CHARTS

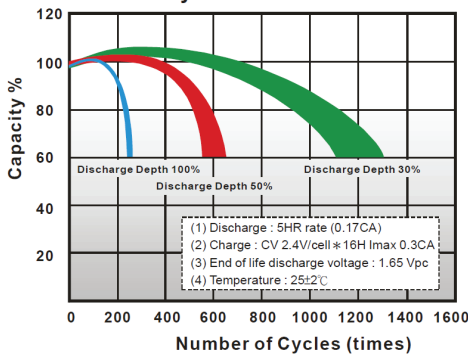
Effect of Temperature on Capacity 25°C (77°F)



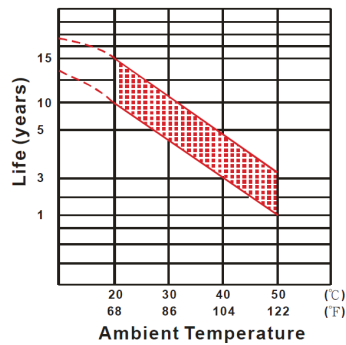
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



## FEATURES & BENEFITS

- ◆ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ◆ Long service life to reduce maintenance and logistical costs across telecom, utilities and off-grid applications.
- ◆ Minimises sulphation with a thicker plate design and higher percentage of tin content to maximise battery standby life.
- ◆ High rate discharge capable to ensure reliable performance.
- ◆ Maintenance free technology and non-spillable design.
- ◆ Manufactured by Kung Long Battery (KLB) at facilities in Taiwan and Vietnam. KLB is a leading manufacturer and complies with relevant international quality standards including ISO9001, CE ETL9000, UL1989, OHSAS18001 and ISO17025. KLB supports Green Sustainable supply chain practices.



## PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
15	min	268	328	370	397	404	413	422
30	min	159	196	220	236	240	246	251
60	min	136	146	152	155	156	157	159
120	min	77.2	82.8	85.2	87.2	87.8	88.5	89.2
180	min	59.3	63.5	65.3	66.7	67.2	67.7	68.2
240	min	48.5	51	52.5	53.7	54	54.5	55
300	min	40.8	43	44.5	45.7	46	46.5	46.8
480	min	28.3	29.8	31	31.8	32	32.3	32.7
600	min	24.5	25.5	26.3	27	27.2	27.3	27.5
1200	min	12.6	13.2	13.5	13.8	13.9	14	14.1

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
15	min	153	188	213	226	230	235	241
30	min	89.2	108	121	129	131	134	137
60	min	70.4	75.9	77.8	79.5	80.1	80.8	81.6
120	min	38.2	42.3	44	45.3	45.7	45.2	45.8
180	min	27.7	30.8	31.9	32.8	33.1	33.5	34
240	min	22.6	24.8	25.7	26.4	26.6	26.9	27.2
300	min	19.9	21.3	22.1	22.6	22.7	22.9	23.1
480	min	14.30	15.2	15.6	15.8	15.9	16	16.1
600	min	11.8	12.6	13	13.3	13.4	13.5	13.6
1200	min	6.42	6.63	6.72	6.79	6.82	6.85	6.89

All data on the spec. sheet is an average value:

The tolerance range :  $X < 6\text{min}$  (+15%~-15%),  $6\text{min} \leq X < 10\text{min}$  (+12%~-12%),  $10\text{min} \leq X < 60\text{min}$  (+8%~-8%),  $X \geq 60\text{min}$  (+5%~-5%)